A METHOD FOR IMPROVED CHEMICAL SYNTHESIS OF GUANIDINIUM ALKALOIDS

ABSTRACT OF THE DISCLOSURE

Improved methods for convergent, total enantioselective synthesis of guanidinium alkaloid compounds including ones having cis- or -trans-1-oxo-and 1-iminohexahydropyrrolo [1,2-c]pyrimidine units including, 13,14,15-isocrambescidin 800, crambescidin 800 and ptilomycalin A, for use as therapeutic agents having antifungal and/or antiviral and/or antitumor activity are provided. Methods for preparing novel pentacyclic intermediates for the preparation of the crambescidin/ptilomycalin family of guanidinium alkaloids and congeners are also disclosed.

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